

Attachment F
Staff Report for Administrative Civil Liability Order
Lake Berryessa Resort Improvement District
Wastewater Treatment Facility

Napa County			
Item	Quantity (feet or item)	Unit Cost (per linear foot or per item)	Total Cost
Sewer Evaluation Studies			
Flow Isolation Testing Device (at 2,000 foot intervals)	20	\$225	\$4,500
Flow Isolation Testing and Evaluation	39,815	\$0.36	\$14,333
CCTV Inspection	39,815	\$2.00	\$79,630
Smoke Testing (previously completed)	0	\$0.35	\$0
Sub Total			\$98,463
Contingency @ 20%			\$19,693
Engineering/Administration	1	\$10,000	\$10,000
Project Coordinator/Inspection		\$15,000	\$15,000
Section Total			\$143,156
Repair Defects			
Manhole Repair	3	\$1,000	\$3,000
Pipeline Spot Repairs (based on City of Plymouth assumptions)	5	\$5,000	\$25,000
Installation of Rain Stoppers on Manholes	3	\$100	\$300
Subtotal			\$28,300
Contingency @20%			\$5,660
Engineering/Administration	1	\$15,000	\$15,000
Project Coordinator/Inspection	1	\$10,000	\$10,000
Section Total			\$58,960
Repair Sewerline			
Pipeline Replacement (assumes replacement of 20% of the total pipeline)	7,963	\$120	\$955,560
Contingency @ 20%			\$191,112
Engineering/Administration	1	\$10,000	\$10,000
Project Coordinator/Inspection		\$15,000	\$15,000
Engineering/Project Coordination	1	\$10,000	\$10,000
Section Total			\$1,181,672
Total			\$1,383,788

Source of Unit Costs and other assumptions: City of Plymouth Long Term Wastewater Management Plan (September 2002), prepared by Ecologic Engineering as well as verbal input from Lake County Sanitation District.

Type of Problems: leaking manholes, cracked pipe, offset joints, etc.

Collection System Includes:

340 Sewer Connections

163 Active Sewer Connections

34,515 linear feet of 4, 6, 8, and 10 inch asbestos cement collection main

5,300 linear feet of 6-inch cast iron force main transmission pipe

3 Lift Stations

3 Manholes